

DESIGN LOADS	
1. CODE	2015 IBC
2. GRAVITY LOADS	
A. REFER TO MANUFACTURER'S RATED LOADS.	
3. LATERAL LOADS	
A. SEISMIC LOADS	
1. 5% DAMPED SPECTRAL RESPONSE COEFF (S _{ds})	0.149 _s
2. 1-SEC PERIOD SPECTRAL RESP COEFF (S _{d1})	0.123 _s
3. SITE CLASS (ASSUMED)	D
4. SEISMIC DESIGN CATEGORY	B
5. NON-BUILDING STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM	STEEL STORAGE RACKS
6. RESPONSE MODIFICATION FACTOR (R)	4.0
7. OVERSTRENGTH FACTOR (O _n)	2.0
8. IMPORTANCE FACTOR (I _p)	
- SALES FLOOR AREA	1.5 (PUBLIC ACCESS AREA)
- STORAGE AREA	1.0 (NO PUBLIC ACCESS)
9. ANALYSIS PROCEDURE (ASCE 7, SECT. 12.8 & 15.5)	EQUIVALENT LATERAL FORCE
10. DESIGN BASE SHEAR (PER 2012 RMI)	
- SALES FLOOR RACKS	0.069W (PUBLIC ACCESS AREA)
- STORAGE AREA RACKS	0.037W (NO PUBLIC ACCESS)

GENERAL NOTES

- GENERAL
- ALL FIXTURES SHALL BE DESIGNED TO MEET ALL BUILDING CODE REQUIREMENTS.
- THE BASE ANCHORAGE, MEMBERS AND CONNECTIONS FOR THE FIXTURES SHOWN ON THIS INSTALLATION DRAWING HAVE BEEN DESIGNED TO RESIST DESIGN WIND/SEISMIC LATERAL FORCES FOR THE BUILDING CODES NOTED IN THE "DESIGN LOADS" TABLE ON THIS SHEET. INSTALLATION OF THE FIXTURES SHALL MEET THE LAYOUT SHOWN ON THE FIXTURE LAYOUT PLAN PROVIDED BY OWNER.
- SLAB AND FOUNDATION ASSUMPTIONS
- SLAB ON GRADE IS ASSUMED TO HAVE A MINIMUM OF 3,000 PSI COMPRESSIVE STRENGTH.
- THE SLAB ON GRADE IS ASSUMED TO BE A MINIMUM OF 4 INCHES THICK (5 1/2 INCHES THICK MINIMUM AT THE EXTERIOR GARDEN CENTER AND STORAGE AREAS), UNREINFORCED AND PLACED OVER A MINIMUM OF 4 INCHES OF DRAINAGE FILL.
- THE SLAB ON GRADE IS DESIGNED TO BEAR ON A SUBGRADE REACTION MODULUS OF 150 PCI MINIMUM.
- MATERIAL FOR RACKS AND ANCHORAGE
- ALL ANCHORS TO THE SLAB SHALL BE AS NOTED ON THESE PLANS.
- OWNER IS TO PROVIDE MAINTENANCE PER RMI 1.4.1.
- RACK INSTALLER SHALL OBTAIN OUT-OF-PLUMB INSTALLATION TOLERANCE FROM FIXTURE SUPPLIER PRIOR TO INSTALLATION - RMI 2012, SECTION 1.4.1.1.
- NO FIELD WELDING IS PERMITTED. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, IN AN APPROVED SHOP. USE E70x WELD RODS OR EQUAL TO TENSILE STRENGTH OF BASE METAL OF WELDEMENTS. PER AWS D1.1 OR D1.3.
- PROVIDE 7" AT 120" TALL RACKS AND 4 1/2" AT RACKS LESS THAN 120" (OR EQUAL TO 5% OF THE UPRIGHT FRAME HEIGHT) MINIMUM CLEARANCE BETWEEN OTHER RACK FIXTURES OR ADJACENT BUILDING ELEMENTS PER ASCE 7-10, SECTION 15.5.3.8.
- ROLES AND RESPONSIBILITIES FOR DEMOLITION AND INSTALLATION OF SHELVING AND RACKING FIXTURES
- GENERAL CONTRACTOR TO ANCHOR ALL SHELVING AND RACKING FIXTURES ACCORDING TO THE REQUIREMENTS NOTED ON SHEETS FXS1 AND FXS2.
- FIXTURE ANCHORING SHALL BE ACCOMPLISHED SIMULTANEOUSLY WITH FIXTURE INSTALLATION.
- GENERAL CONTRACTOR SHALL INSURE THAT PROPER PROCEDURES AND WORK SEQUENCE ARE IN PLACE DURING ALL FIXTURE ANCHORING PROCEDURES.
- GENERAL CONTRACTOR TO CLEAN ALL RESIDUE FROM SURROUNDING FIXTURE AND AREA ANCHORING IS COMPLETED (CLEAN AS YOU GO).
- GENERAL CONTRACTOR IS TO PERFORM ALL REMOVAL AND INSTALLATION OF ANCHOR STRAPS AND BOLTS AT FIXTURES REQUIRING PERMANENT OR TEMPORARY RELOCATION.

ANCHORAGE BILL OF MATERIALS

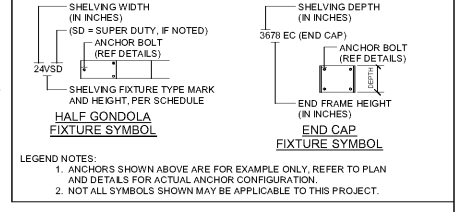
USAGE	MATERIAL TYPE	COUNT
ANCHOR	DEWALT SCREW BOLT+ 1/2" DIAMETER x 3" (PFM1411380)	134
ANCHOR	DEWALT SCREW BOLT+ 3/8" DIAMETER x 2 1/2" (PFM1411220)	584
ANCHOR	DEWALT SCREW BOLT+ 1/4" DIAMETER x 1 3/4" (PFM1411020)	34
STRAP	ANCHOR STRAPS (GONDOLA/WALL)	496
WALL ANCHOR	CMU - 3/8" DIA x 5" ITW RED HEAD LARGE DIAMETER TAPCON (WLD73505)	51
WALL ANCHOR	MTL STUD WALLS - 1/4" DIA x 6" LAG SCREWS	88

NOTES:

- ANCHOR BOLTS AND STRAPS NOTED ABOVE ARE FURNISHED BY AND INSTALLED BY THE GENERAL CONTRACTOR (GC).
- ANCHOR STRAP SUPPLIER CONTACT INFORMATION:
 JOSH GOECKEN, joshua.gocken@color.biz, (402) 457-9379
 MADIX: CHERI BAGLEY, cbagley@madixinc.com, (256) 939-6354

SHELVING FIXTURE & ANCHORAGE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT (IN INCHES)	ANCHORAGE DETAIL
18S	HALF GONDOLA	54"	1A-FXS2
18T	HALF GONDOLA	60"	1A-FXS2
24T	HALF GONDOLA	60"	1A-FXS2
18V	HALF GONDOLA	78"	1A-FXS2
24V	HALF GONDOLA	78"	1A-FXS2
36V	HALF GONDOLA	78"	1A-FXS2
18W	HALF GONDOLA	84"	1A-FXS2
32W	HALF GONDOLA	84"	1A-FXS2
24X	HALF GONDOLA	90"	1A-FXS2
3678 EC	END CAP	78"	1C-FXS2
2490 EC	END CAP	90"	1C-FXS2

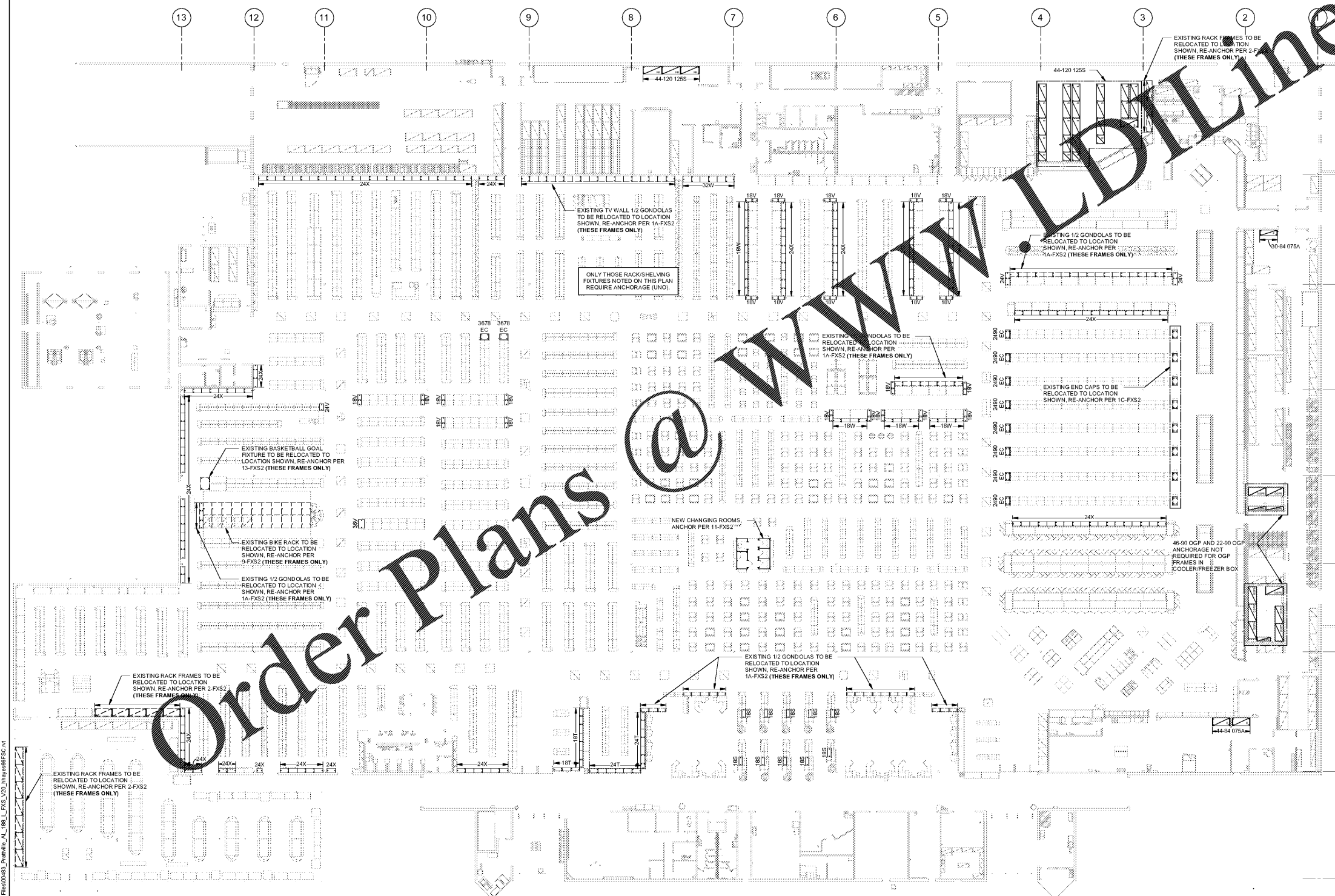
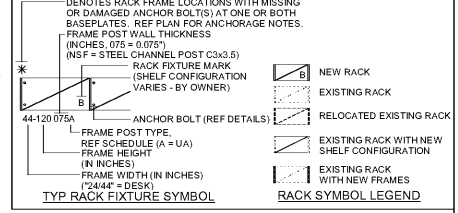


RACK FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	FIXTURE HEIGHT	FRAME MARK	MAX SHELF LOAD (LBS)
B	STORAGE RACK	120"	FRAME 44-120 125S	5000
E	STORAGE RACK	94"	FRAME 44-94 075A	1200
F	STORAGE RACK	84"	FRAME 30-84 075A	1200
FB	STORAGE RACK	120"	FRAME 44-120 125S	1200
OGPS	STORAGE RACK	90"	FRAME 46-90 OGP	600
OGPS	STORAGE RACK	90"	FRAME 22-90 OGP	600

RACK FRAME AND ANCHORAGE SCHEDULE

FRAME MARK	ANCHOR DETAIL	FRAME COUNT
22-90 OGP	REF PLAN2-FXS2	5
30-84 075A	2-FXS2	2
44-94 075A	2-FXS2	4
44-120 125S	2-FXS2	35
46-90 OGP	REF PLAN2-FXS2	12



1 FIXTURE ANCHORAGE PLAN
1" = 20'-0"

STIPULATION FOR REUSE

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ISSUE BLOCK

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FIXTURE ANCHORAGE PLAN AND NOTES

SHEET: **FXS1**